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Schools that could most profitably follow the writer of the above article's plan. Not necessarily that the MONTHLY be used but that the teachers of mathematics carry the spirit of the great living subject into their classrooms. There is no better way to do this than for every teacher to take some good magazine especially devoted to his favorite study.

BOOKS AND PERIODICALS.

Elements of the Differential and Integral Calculus with Examples and Practical Applications. By J. W. Nicholson, A. M., LL. D., President and Professor of Mathematics, Louisiana State University and Agricultural and Mechanical College. 8vo. Cloth, 256 pp. New York and New Orleans: University Publishing Co.

We have long been expecting this unique work on the Calculus as Col. Nicholson apprised us more than a year ago that he was preparing a work on the subject which he expected would create a stir among mathematicians. In this, I think he will realize his expectation, as his work is a great departure from the long beaten path of the traditional Calculus. None of the metaphysical speculations of Newton, Leibniz, Carnot, D'Alembert, Berkeley, Duhamel, Cavalieri, Marquis de L'Hopital, etc., are met with, in reading this book. The idea is simply an extension of mathematical principles without assuming vague metaphysical propositions.

The chief distinctions of this treatise is that, (1) it is based on the conception of *Proportional Variations*, (2) the treatment of dx as a variable, (3) a rigorous deduction of simple tests of absolute convergency, without recourse to the remainder in Taylor's formula, (4) an extension of the ordinary rules for finding maxima and minima, (5) a chapter on Independent Integration, (6) integration by independent coefficients, (7) the introduction of *turns* in curve tracing, and (8) a new proof of Taylor's formula.

The treatment of dx as a variable is the only rational way of viewing dx as a quantity at all. We do not think that Col. Nicholson has wandered too far from the usual method of treating the subject and we are sure the beginner in Calculus will hail the work with joy.

It is time for the Calculus to be treated on sound mathematical principles and not those of metaphysics. We very gladly recommend this new work to the favorable consideration of teachers and students desiring a good text book on the Calculus. B. F. F.

The Science Absolute of Space. Independent of the truth or falsity of Euclid's Axiom XI (which can never be proved *a priori*). By John Bolyai. Translated from the Latin by Dr. George Bruce Halsted, President of the Texas Academy of Science. Fourth edition. Vol. three of the Neomonic Series. Published at the Neomon, 2407 Guadalupe Street, Austin, Texas. Cloth, 71 pp. Price, \$1.00.

Dr. Halsted has just got out the fourth edition of his translation of Bolyai's "Science Absolute of Space." The work is enriched by many interesting particulars concerning the lives of the celebrated author of the Non-Euclidean Geometry, Bolyai Janos, and his father, Bolyai Farkas. This little work is worth a careful reading at least once a year.

B. F. F.

Concrete Geometry for Beginners. By A. R. Hornbrook, A. M., Teacher of Mathematics in High School, Evansville, Indiana. 12mo. Cloth, 201 pp. Price, 75 cents. New York and Chicago: American Book Co.

This book is designed as an Introductory Course to the Study of Demonstrative Geometry. The author is a very thorough and efficient teacher of mathematics, and is intensely interested in the subject. The book is carefully and skillfully written, and can not be too highly recommended for the place it is designed to occupy. Were all students carefully instructed by the Laboratory Method, in Concrete Geometry, better results would be obtained while studying Demonstrative Geometry. B. F. F.

The Review of Reviews. An International Illustrated Monthly Magazine. Edited by Dr. Albert Shaw. Price, \$2.50 per year. Single number, 25 cents. The Review of Reviews Co., New York City.

During these months of extraordinary unrest in foreign politics, the *Review of Reviews* devotes its attention in large measure to international affairs. Its editorial department discusses matters in South Africa, the attitude of the great European powers, and the most recent phases of the movement among the nations for the arbitration of disputes; the March number also contains a most timely article on "The Government of France and Its Recent Changes," by Baron Pierre de Coubertin; "A Review of Canadian Affairs," by J. W. Russell, and a character sketch of "Cecil Rhodes, of Africa," by W. T. Stead. It can hardly be said that the *Review of Reviews* is narrowly provincial in its outlook on men and events!

The Cosmopolitan. An International Illustrated Monthly Magazine. Edited by John Brisben Walker. Price, \$1.00 per year. Single number, 10 cents. Irvington-on-the-Hudson, New York.

The price of this magnificent magazine has been so reduced as to make it possible for four-fifths of the homes of America to enjoy its choice reading. The March number is replete with the best literature of the present time.

See our club rate in December number and then give us your order for the *Review of Reviews* and the *Cosmopolitan*.